CLAIMS

WHAT IS CLAIMED IS:

CONCL

1. A high-speed image sensor comprising a plurality of signal converting means for generating electric signals according to an incident light intensity and a plurality of electric signal recording means for storing electric signals output from corresponding signal converting means,

wherein said electric signal recording means is linear shaped and provided with a read-out line for each of longitudinal sections thereof the read-out line being used for directly reading out the electric signals out of a light receptive area.

2. A high-speed image sensor comprising a plurality of signal converting means for generating electric signals according to an intensity of electromagnetic waves or particle streams and a plurality of electric signal recording means for storing electric signals output from corresponding signal conventing means,

wherein said electric signal recording means is linear shaped and provided with a read-out line for each of longitudinal sections thereof the read-out line being used for directly reading out the electric signals out of a light receptive area.

Glaim The high-speed image sensor as in claims 1 or 2, further comprising means for directly connecting said signal converting means with the read-out lines without passing through said electric signal recording means.

A high-speed image sensor comprising a plurality of signal converting means for generating electric signals according to an incident light intensity and a plurality of electric signal recording means for storing electric signals output from corresponding signal converting means,

wherein said signal converting means are disposed in all of or every other square or rectargular frames on a light receptive area; and

wherein a center in of said electric signal means is inclined with respect to \a line connecting two positions where electric signals are input from two of said signal converting means adjacent to each other in an extension direction of said electric stignal recording means to corresponding electric signal recording means.

The high-speed image sensor as in any 1 through 4, wherein said electric signal recording means is a charge coupled dev $i \phi$ e type electric signal recording means.

The high-speed image sensor as in any one of claims

1 through 4, wherein said electric signal recording means
is a MOS type electric signal recording means.

- 7. The high-speed image sensor as in claims 5 or 6, wherein each of said signal converting means is divided into a plurality of portions insulated from each other.
- 8. The high-speed image sensor as in claim 6, wherein each of said signal converting means is divided into a plurality of portions insulated from each other and wherein plurality of amplification means for amplifying the electric signals are interposed between said plurality of divided portions and said electric signal recording means.
- 9. The high-speed image sensor as in claims 5 or 6, further comprising a cuttable band-shaped space which continuously extends from one side to another side of the light receptive area.
- 10. A high-speed image sensor comprising a plurality of signal converting means for generating electric signals according to an incident light intensity and a plurality of electric signal recording means for storing electric signals output from corresponding signal converting means,

wherein each of said signal converters is divided into a plurality of portions insulated from each other.

11. An image sensing apparatus comprising said high-speed image sensor claimed in any one of claims 1 through 10.

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